DEVELOPMENT SERVICES DEPARTMENT
ENVIRONMENTAL COORDINATOR
450 110th Ave NE., P.O. BOX 90012
BELLEVUE, WA 98009-9012

OPTIONAL DETERMINATION OF NON-SIGNIFICANCE (DNS) NOTICE MATERIALS

The attached materials are being sent to you pursuant to the requirements for the Optional DNS Process (WAC 197-11-355). A DNS on the attached proposal is likely. This may be the only opportunity to comment on environmental impacts of the proposal. Mitigation measures from standard codes will apply. Project review may require mitigation regardless of whether an EIS is prepared. A copy of the subsequent threshold determination for this proposal may be obtained upon request.

File No. 22-112105-LO

Project Name/Address: COB Bogline Sanitary Sewer Rehabilitation; Vicinity of 156th Ave SE/11th St

Planner: Leticia Wallgren
(425)452-2044
lwallgren@bellevuewa.gov

Minimum Comment Period: August 4, 2022

Materials included in this Notice:

- ☑ Blue Bulletin
- ☑ Checklist
- ☑ Vicinity Map
- ☑ Plans
- ☐ Other:

OTHERS TO RECEIVE THIS DOCUMENT:

- ☑ State Department of Fish and Wildlife
- ☑ State Department of Ecology, Shoreline Planner N.W. Region
- ☑ Army Corps of Engineers
- ☑ Attorney General
- ☑ Muckleshoot Indian Tribe

Development Services

SEPA Environmental Checklist

The City of Bellevue uses this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions

The checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully and to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions.

You may respond with “Not Applicable” or "Does Not Apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies and reports. Please make complete and accurate answers to these questions to the best of your ability in order to avoid delays. For assistance, see SEPA Checklist Guidance on the Washington State Department of Ecology website.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The city may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Background

1. Name of proposed project, if applicable Bogline Sanitary Sewer Rehabilitation Project
2. Name of applicant Vanaja S. Rajah, PE, Senior Utilities Engineer/Project Manager, City of Bellevue
3. Contact person Emily Drew Phone 425 466 6450
4. Contact person address 1110 112th Ave NE, Bellevue, WA 98004
5. Date this checklist was prepared 4/20/2022
6. Agency requesting the checklist City of Bellevue Development Services

Reviewed 7/21/22
LW

7. Proposed timing or schedule (including phasing, if applicable)

Work is proposed to occur in the spring and/or summer of 2023.

8. Do you have any plans for future additions, expansion or further activity related to or connected with this proposal? If yes, explain.

There are no plans for future additions or expansions related to this proposal. The only future activity associated with this proposal is regular, scheduled maintenance to ensure the sewer system remains functional and provides continued service to customers.

9. List any environmental information you know about that has been prepared or will be prepared, that is directly related to this proposal.

The following documents will be prepared for this proposed project: a Critical Areas Report for the City of Bellevue Critical Area Land Use Permit, a wetland delineation report, and a Joint Aquatic Resources Permit (JARPA) for Section 401 Water Quality Certification and Section 404 consultation if required (April 2022).

10. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

There are no applications pending for other proposals directly affecting the property covered by this proposal.

11. List any government approvals or permits that will be needed for your proposal, if known.

City of Bellevue Critical Areas Land Use Permit
Ecology 401 Water Quality Certification
City of Bellevue Clearing and Grading Permit
City of Bellevue Right of Way Use Permit

12. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The Bogline Sanitary Sewer Rehabilitation Project (Project) will replace the City's existing sanitary sewer pipeline and manholes on an easement within the backyards of 14 private properties and 2 Bellevue Parks properties and side yards of 3 private properties. This portion of the existing sewer conveyance system requires frequent (monthly) maintenance to provide services to the customers, exceeding the current performance standards for a functional sewer system which is flushing every 10 years. About 1455 linear feet of sewer pipe will be rehabilitated to eliminate the deficiency in the system - most pipe will be replaced; a small section will be rerouted with the old pipe being decommissioned in place.

13. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and the section, township and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The proposed project involves the replacement of existing sewer line along 158th Ave SE and along SE 13th Street and along public easements in several private properties on the west side and east side of 158th Ave SE in the vicinity of SE 13th Street's intersection. The project is in Section 2, Township 24 North, Range 5 East.
See attached 30% design drawings which also show the vicinity map and the extent of the work, street names, and property addresses.

Environmental Elements

Earth

1. General description of the site:
   - ☑ Flat
   - ☐ Rolling
   - ☐ Hilly
   - ☐ Steep Slopes
   - ☐ Mountainous
   - ☐ Other _____

2. What is the steepest slope on the site (approximate percent slope)? 2-4%

3. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

The NRCS lists soil types in the study area as Seattle Muck which are very poorly drained and are listed as hydric soils. A geotechnical report for the project noted that subsurface conditions are fill, duff, and underlying peat deposits. The peat layer varies between 3 and 17 feet thick, and is underlain by dense sand and silty sand.

4. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

King County iMap does not show any landslide, erosion or other geologic hazards in the project area or within the project work limits. The nearest geologic hazard area mapped by the County and the City of Bellevue are steep slopes at 15661 SE 11th St and 1205 158th Ave SE, near the intersection of SE 11th St and 158th St, about 120 feet east of the project corridor. The City maps low to moderate liquefaction-prone soils overlapping the project, in the area of the 100-year floodplain in the SW corner of the project area.

5. Describe the purpose, type, total area and approximate quantities and total affected area of any filling, excavation and grading proposed. Indicate the source of the fill.

The project includes about 570 cubic yards of excavation (409 cy in the wetland buffer). Excavation is necessary to access and rehabilitate the existing sewer system. The excavated areas will be filled with native soil or fill imported from an approved local source and restored to existing conditions once construction is complete. Work in the floodplain will include about 12 cubic yards of excavation. The project would not result in a change in elevation within the 100-year floodplain.

6. Could erosion occur as a result of clearing, construction or use? If so, generally describe.

Excavation areas are generally flat or gently sloping. BMPs will be used to reduce risk of erosion during construction.

7. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? <1% difference from existing (manhole covers). Any pavement removed as part of the repair along 158th Ave SE will be restored as pavement.

8. Proposed measures to reduce or control erosion, or other impacts to the earth, if any.

To reduce and minimize erosion potential, best management practices (BMPs) will be used. Barriers such as sand bags or silt fences will be installed at the start of construction and remain on-site until the Project is completed; Temporary erosion-control blankets, mulch, or other industry-approved standards will be used on exposed soils to minimize erosion before restoration vegetation establishes. Construction areas will be replanted immediately after construction.

Air

1. What types of emissions to the air would result from the proposal during construction, operation and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Operation of equipment (such as small backhoes, and vehicles driving to the site) during construction will produce CO2 emissions. The completed project will not result in any increase to emissions.

2. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

There are no known off-site sources of emissions or odor that would affect this project.

3. Proposed measures to reduce or control emissions or other impacts to air, if any.

Trucks and equipment will not be allowed to idle when not in active use.

Water

1. Surface Water
   a. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

One large wetland (Wetland 1) is located adjacent to the proposed project location. Most of the project occurs within the buffer of Wetland 1. The southern corner of the proposed project is located within Wetland 1. A tributary to Kelsey Creek flows through the wetland and is located about 250 feet west of, and entirely outside of, the project area. A second small wetland (Wetland 2) is located at the northern end of the study area, west of, and entirely outside of, the project area.

   b. Will the project require any work over, in or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

The project will require work adjacent to Wetland 1. A portion of the eastern wetland boundary, adjacent to the project area, was delineated by Jacobs biologists in November 2021 and March 2022. The attached plans show the location of the wetland boundary in relation to the proposed project. Work will also occur in or adjacent to Wetland 2.

   c. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of the fill material.

Total excavation in wetlands is expected to be none. Total excavation in wetland buffer is expected to be about 409 cubic yards (in a narrow strip along the sewer alignment throughout the buffer). Excavated material would be disposed offsite at an approved location. Fill would be brought in from an approved local source to replace the removed peat material in equal volume.

   d. Will the proposal require surface water withdrawals or diversions? Give a general description, purpose and approximate quantities, if known.

The proposed project is not expected to require surface water withdrawals or diversions. It is possible some temporary dewatering may be required at the small isolated wetland at the project's north end during the excavation of the adjacent section of pipeline. However, this wetland is 3 feet or more from the sewer line and my not require this temporary dewatering.

   e. Does the proposal lie within a 100-year floodplain? If so, note the location on the site plan. The proposed project is partially located within the 100-year floodplain of Kelsey Creek.

f. Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

The proposal does not involve any discharges of waste materials to surface waters.

2. Ground Water

a. Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

The proposed project will not withdraw any water from a well, or discharge water to groundwater.

b. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals…; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

The proposed project will not discharge any waste material into the ground. The project is intended to avoid too frequent maintenance that is currently required to avoid potential backups. A sewer bypass will be installed during construction.

3. Water Runoff (including stormwater)
   a. Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

The project will not be creating impervious surfaces; the project will not create any surfaces for runoff to occur during or after construction.

   b. Could waste materials enter ground or surface waters? If so, generally describe.

BMPs will be in place to ensure that no contaminants/fuels etc. will occur from equipment operated during construction. Pipe supports placed below the sewer line are expected to be steel or pre-cast concrete. If cast in place concrete supports are needed, concrete would be poured in enclosed forms such that no waste materials from the process contact wetland buffer soils.

   c. Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

The project will not affect drainage patterns in the vicinity of the site, and does not propose changes to any surface water or stormwater conveyance features. Fill replacing the existing peat soils at the pipe replacement locations may have different permeability than existing soils; however this replaced fill will be very localized and is not expected to change current drainage patterns.

Indicate any proposed measures to reduce or control surface, ground and runoff water, and drainage pattern impacts, if any.

No runoff or drainage-pattern changes are expected.

Reviewed 7/21/22
LW

Plants

1. Check the types of vegetation found on the site:

- [x] deciduous tree: alder, maple, aspen, other Sitka willow, paper birch, alder, landscape trees
- [x] evergreen tree: fir, cedar, pine, other Douglas-fir
- [x] shrubs
- [x] grass
- [ ] pasture
- [ ] crop or grain
- [ ] orchards, vineyards or other permanent crops
- [x] wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other _____
- [ ] water plants: water lily eelgrass, milfoil, other _____
- [x] other types of vegetation reed canarygrass, Himalayan blackberry

2. What kind and amount of vegetation will be removed or altered?

Up to 15 significant trees will be removed. Tree protection measures of remaining trees will be implemented as required by City LUC 20.20.900.
Landscaping shrubs and grass lawn will be removed on private properties, and Himalayan blackberry shrubs will be removed on private and City parks land.

3. List any threatened and endangered species known to be on or near the site.

No threatened or endangered species are known to be on or near the site.

4. Proposed landscaping, use of native plants or other measures to preserve or enhance vegetation on the site, if any.

A planting plan will replace the removed trees, shrubs and grass with native plantings on currently undeveloped land, and with native or other landscape plantings in developed backyards upon negotiation with the City and the homeowners.
The restoration plantings will also address tree mitigation required by the City of Bellevue. Significant trees will be replaced at a minimum of a 1:1 ratio per LUC 20.20.900E.4.

Reviewed 7/21/22
LW

5. List all noxious weeds and invasive species known to be on or near the site.

Invasive species present in or near the project area include Himalayan blackberry, reed canarygrass, and knotweed.

Animals

1. List any birds and other animals which have been observed on or near the site or are known to be on or near the site. Examples include:

   Birds: ☑hawk, ☑heron, ☑eagle, ☑songbirds, ☐other _____

   Mammals: ☑deer, ☐bear, ☐elk, ☐beaver, ☐other _____

   Fish: ☐bass, ☐salmon, ☐trout, ☐herring, ☐shellfish, ☐other _____

2. List any threatened and endangered species known to be on or near the site.

Kelsey Creek is approximately 0.3 mile south of the Project site. Puget Sound Chinook salmon are known to use Kelsey Creek. Puget Sound steelhead and bull trout have the potential to use Kelsey Creek. Kelsey Creek is not designated critical habitat for Chinook salmon or bull trout.

3. Is the site part of a migration route? If so, explain.

The site is within the Pacific Flyway bird migration route.

4. Proposed measures to preserve or enhance wildlife, if any.

Restoration plantings will benefit wildlife by replacing nonnative Himalayan blackberry and reed canarygrass with native plantings. If significant trees are felled in the nesting season, they may be surveyed for bird nests prior to felling.

5. List any invasive animal species known to be on or near the site.

There are no known invasive animal species on or near the site.

Energy and Natural Resources

1. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

The completed project will not generate any new energy needs.

2. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

The completed project will be entirely subsurface and will not affect the potential use of solar energy by adjacent properties.

3. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

None; energy will not be used by the completed project, and no energy conservation measures are proposed. The project is intended to fix a current maintenance issue that requires monthly visits by the City. Removing this maintenance need will eliminate the need for these monthly vehicle trips.

Environmental Health

1. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill or hazardous waste, that could occur as a result of this proposal? If so, describe.

No environmental health hazards would occur; construction equipment such as small or medium-sized excavators have the potential to release spills or leaks of oil or fuel, but BMPs will be in place to prevent this. Though pre-cast or steel sewer line supports are expected to be used, cast-in-place concrete is possible.

a. Describe any known or possible contamination at the site from present or past uses.

No past or present contamination is known on site, beyond what is expected from normal use of residential backyards (lawn care treatments, etc.).

b. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

No existing hazardous chemicals/conditions are known that might affect project development or design.

c. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

No toxic or hazardous chemicals might be stored on site. Fuels and oils for the excavation equipment would be staged away from the wetland and wetland buffer, and/or the equipment would be fueled entirely off site. If cast in place concrete supports are needed, concrete would be poured in enclosed forms such that no waste materials contact wetland soils.

Reviewed 7/21/22
LW

d. Describe special emergency services that might be required.

No special emergency services will be needed for the completed project. Normal emergency medical services may be needed in the event of an accident during construction.

e. Proposed measures to reduce or control environmental health hazards, if any.

BMPs will be in place to safely operate the excavation equipment and prevent any leaks or spills of fuel or oils.

2. Noise

a. What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Noise would not affect the project. The project area currently experiences normal urban noise such as traffic, yard and park maintenance equipment, etc.

b. What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Short-term Noise: Short-term noise impacts would occur during construction, but this area is already exposed to levels of ambient noise from the park and nearby roads. Noise would be from small to medium excavators and hand-held tools. Long-term Noise: Grinder pumps may need to be installed at one to two properties along the sewer line; low, localized noise is possible at these pumps when they are operating. There would be no other post-construction noise related to implementation of the project.

c. Proposed measures to reduce or control noise impacts, if any.

Construction activities will be limited to normal construction contractor work hours as permitted under City code.

Reviewed 7/21/22
LW

Land and Shoreline Uses

1. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

Most of the site is within Lake Hills Greenbelt Parks (owned by City of Bellevue Parks). The project extends through a few private residences. Adjacent properties are single-family homes. There will be temporary disturbance during construction but current land uses will not be permanently impacted.

2. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to non-farm or non-forest use?

The project does not propose conversion of any such land.

   a. Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling and harvesting? If so, how?

No; the project area is not surrounded by working farmland or forest land, or associated operations. Adjacent properties include City of Bellevue Parks property and single-family residences.

3. Describe any structures on the site.

The sewer repair will occur on private property containing single family residences. One property contains a shed that extends onto City of Bellevue Parks property and may be within the project area.

Reviewed 7/21/22
LW

4. Will any structures be demolished? If so, what?

The shed on one of the private properties may need to be removed or relocated.

5. What is the current zoning classification of the site? R-1, R-5 and R-1.8 Single Family Residential

6. What is the current comprehensive plan designation of the site? Parks/Single Family Low Densi

7. If applicable, what is the current shoreline master program designation of the site?

The City of Bellevue maps shoreline (urban conservancy) approximately equivalent to the floodplain overlapping the site that is mapped by King County and City of Bellevue. King County iMap does not map shoreline at the site.

8. Has any part of the site been classified as a critical area by the city or county? If so, specify.

The City of Bellevue Environmental Layer shows the southern portion of the project site (adjacent to and including a portion of the property at 1229 158th Ave SE) is within the 100-year floodplain of Kelsey Creek, and shows wetland abutting the west side of the site. King County shows the floodplain but not the wetlands as present within or directly adjacent to the site.

9. Approximately how many people would reside or work in the completed project? 0

10. Approximately how many people would the completed project displace? 0

11. Proposed measures to avoid or reduce displacement impacts, if any.

No displacement impacts are anticipated, so no avoidance or reduction measures are proposed.

12. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any.

The project will repair an existing sewer line to decrease the current frequent maintenance needed; the repair will improve reliability and improve living conditions on adjacent properties.

13. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any.

There are no nearby agricultural or forest lands of long-term commercial significance.

Housing

1. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

No housing units would be provided by this project.

2. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

No housing units would be eliminated by this project.

3. Proposed measures to reduce or control housing impacts, if any.

There are no housing impacts anticipated, so there are no reduction or control measures proposed.

Aesthetics

1. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

There are no structures proposed. The completed project will be entirely subsurface.

2. What views in the immediate vicinity would be altered or obstructed?

The project would not alter or obstruct any views in the immediate vicinity.

3. Proposed measures to reduce or control aesthetic impacts, if any

Aesthetic impacts from removed trees will be addressed by replanting native trees in compliance with the City of Bellevue Land Use Code.

Light and Glare

1. What type of light or glare will the proposal produce? What time of day would it mainly occur?

The proposal will not produce any light or glare during construction or after project completion.

2. Could light or glare from the finished project be a safety hazard or interfere with views?

The finished project will not produce any light or glare, so light or glare will not become a safety hazard or interfere with views.

3. What existing off-site sources of light or glare may affect your proposal?

There are no existing off-site sources of light or glare that would affect this project.

4. Proposed measures to reduce or control light and glare impacts, if any.

There are no anticipated light and glare impacts, so there are no reduction or control measures proposed.

Recreation

1. What designated and informal recreational opportunities are in the immediate vicinity?

The project is located on City of Bellevue Parks property and adjacent to the Lake Hills Greenbelt Park. Lake Hills Greenbelt Park contains walking trails including the Lake to Lake Trail.

2. Would the proposed project displace any existing recreational uses? If so, describe.

The proposed project would not displace any existing recreational uses.

3. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any.

The proposed project is not located in the proximity of any trails. There will be no impacts on recreation in the project area.

Historic and Cultural Preservation

1. Are there any buildings, structures or sites located on or near the site that are over 45 years old listed in or eligible for listing in national, state or local preservation registers located on or near the site? If so, specifically describe.

A cultural resources memorandum was prepared by Jacobs. Jacobs archaeologist Michael Shropshire conducted a records review of the project area and surroundings on April 18, 2022. The State WISAARD database contains no records of archaeological resources within 0.5 mile of the project. There are 1,292 historic properties within 0.5 mile. None of these have been determined eligible for inclusion in the National Register of Historic Places (NRHP). Properties closest to the project area include three private residences located approximately 98, 109, and 511 ft from the project.

2. Are there any landmarks, features or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

A search of the Washington Information System for Architectural and Archaeological Records Database (WISAARD) database did not show any records of archaeological resources within a half mile of the project.

3. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Jacobs archaeologist Michael Shropshire conducted a records search for previously documented historic and archaeological resources within a half mile radius of the project area using the Washington Information System for Architectural and Archaeological Records Database (WISAARD). WISAARD contains all cultural resource documents submitted to the Department of Archaeology and Historic Preservation (DAHP) since 1995.

Reviewed 7/21/22
LW

4. Proposed measures to avoid, minimize or compensate for loss, changes to and disturbance to resources. Please include plans for the above and any permits that may be required.

No archaeological resources were identified within the project area or within a half mile radius of the project area. The project is located along or within developed residential properties that have been previously sculpted into a residential subdivision. Additionally, the overwhelming majority of the work represents "replacement-in-kind" activities that have little to no possibility of disturbing previously undisturbed or intact soils. Although ranked as "high sensitivity" by the DAHP predictive model, the highly developed nature of the residential area and the excavation in previously excavated soils strongly suggests that there is little to no possibility of disturbing archaeological resources.

Transportation

1. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

The site is on City of Bellevue Parks and private property. The site is located adjacent to residences served by 158th Avenue SE and residential streets which connect to 156th Avenue SE and SE 16th Street/SE Phantom Way. 156th Avenue connects to Interstate 90, approximately 1.5 miles south of the project location. SE 16th Street/SE Phantom Way is located approximately 0.3 mile south of the project location.

2. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

The site is currently served by public transit. The site is approximately 0.4 mile from the King County Metro bus stop, located at 156th Avenue SE and Lake Hills Boulevard.

3. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

The completed project would not create or eliminate any parking spaces.

4. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

The proposed project does not include any improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities.

Reviewed 7/21/22
LW

5. Will the project or proposal use (or occur in the immediate vicinity of) water, rail or air transportation? If so, generally describe.

The proposed project does not occur in the immediate vicinity of water, rail or air transportation.

6. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?

The completed project will not generate any vehicular trips per day. Construction vehicle trips will be temporary.

7. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

The proposal will not interfere with, affect or be affected by movement of agricultural or forest products in the area.

8. Proposed measures to reduce or control transportation impacts, if any.

No transportation impacts are anticipated, so no reduction or control measures are proposed.

Reviewed 7/21/22
LW

Public Service

1. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

The project would not result in an increased need for public services.

2. Proposed measures to reduce or control direct impacts on public services, if any.

No public services impacts are anticipated, so no reduction or control measures are proposed

Utilities

1. Check the utilities currently available at the site:

- ☑ Electricity
- ☑ natural gas
- ☑ water
- ☑ refuse service
- ☑ telephone
- ☑ sanitary sewer
- ☐ septic system
- ☒ other - Stormwater

2. Describe the utilities that are proposed for the project, the utility providing the service and the general construction activities on the site or in the immediate vicinity which might be needed.

The project does not include any new utilities and is the rehabilitation of an existing sewer system.

Reviewed 7/21/22
LW

Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

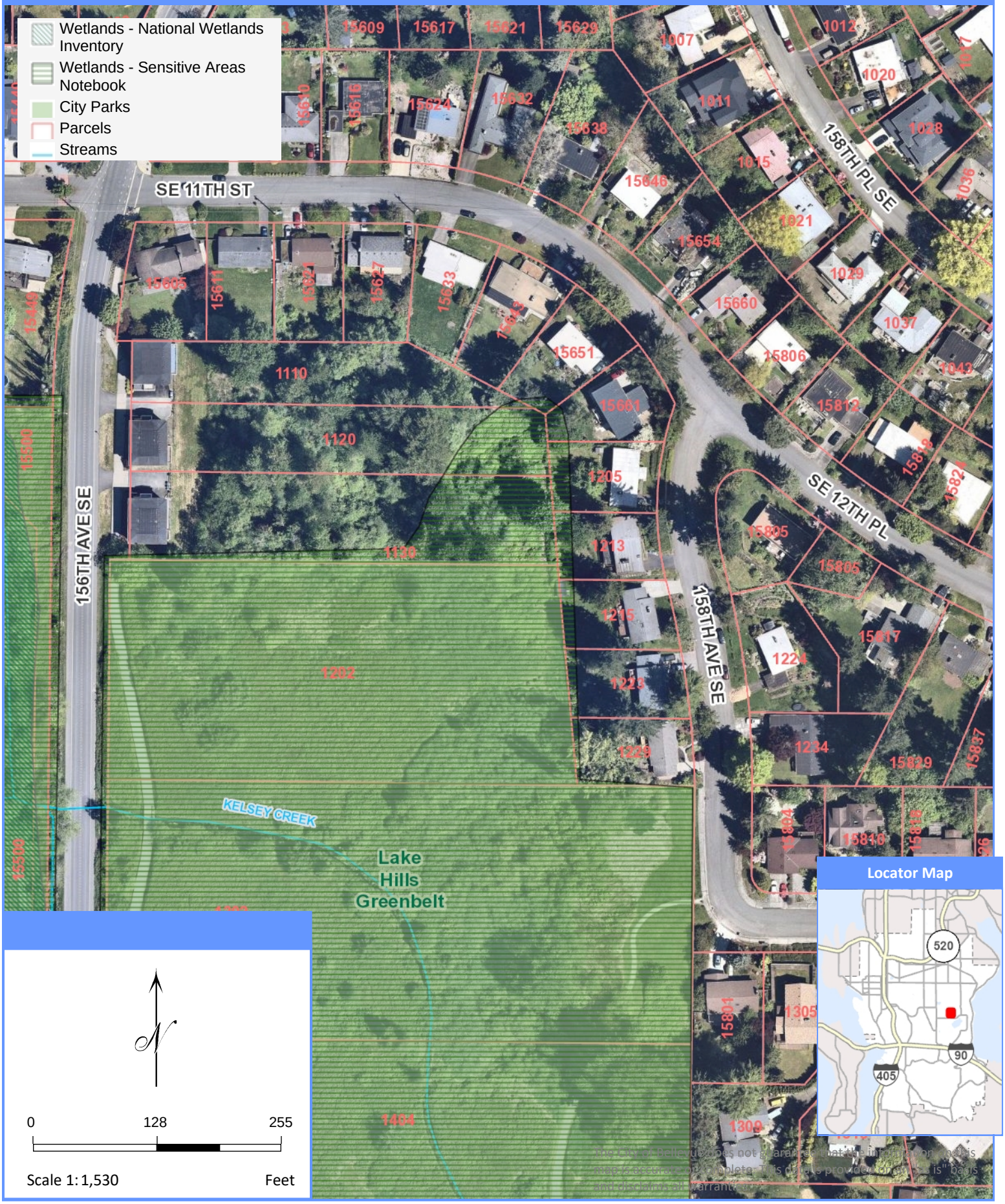
Signature Vanaja S. Rajah

Name of signee Vanaja Sribalaskandarajah

Position and Agency/Organization Senior Utilities Engineer/Project manager (City of Bellevue -Utilities Engineering)

Date Submitted 5/20/2022

Reviewed 7/21/22
LW



Map Generated on: 07/21/2022

CITY OF BELLEVUE
UTILITIES DEPARTMENT

CITY MANAGER
BRAD MIYAKE

MAYOR
LYNNE ROBINSON

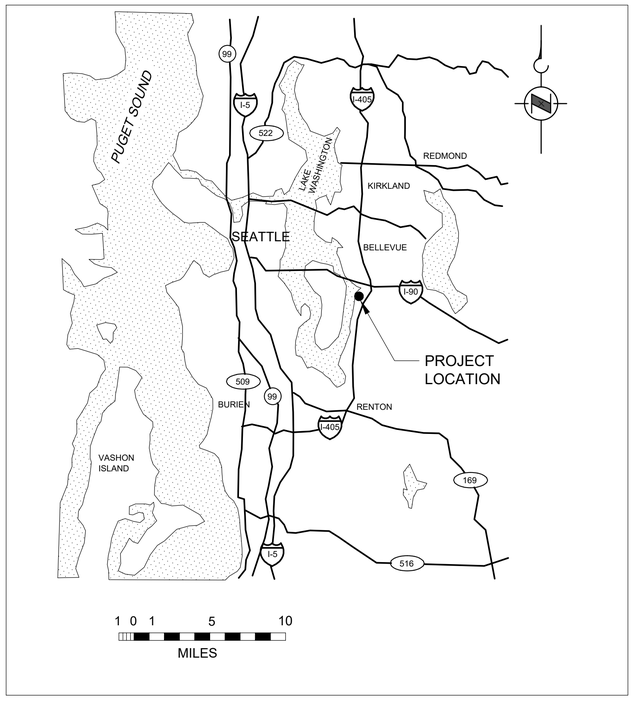
DEPUTY MAYOR
JARED NIEUWENHUIS

UTILITIES DIRECTOR
NAV OTAL

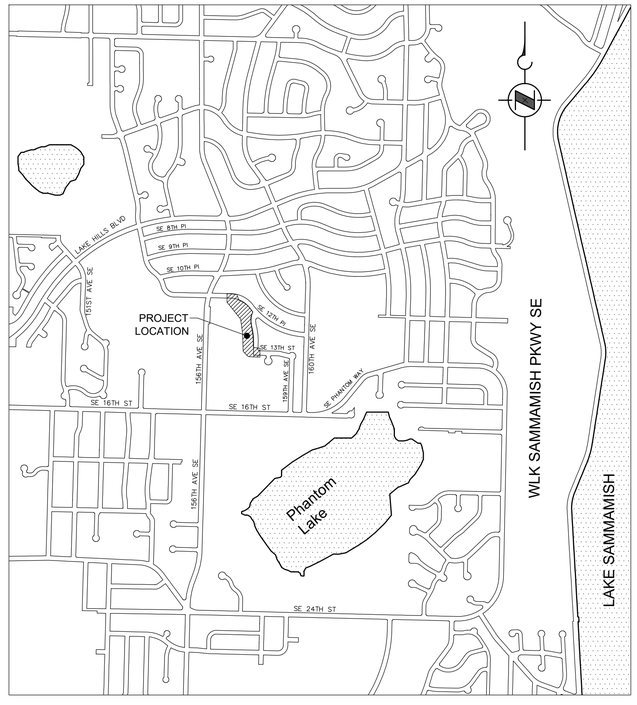
CITY COUNCIL
JEREMY BARKSDALE
CONRAD LEE
JENNIFER ROBERTSON
JOHN STOKES
JANICE ZAHN

BOGLINE SANITARY SEWER REHABILITATION
SANITARY SEWER LINE
CIP NO. X-XX
BID NO. XXXXX

SHEET INDEX TABLE		
SHEET NO	DWG NAME	SHEET TITLE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



LOCATION MAP
SCALE: AS SHOWN



VICINITY MAP
SCALE: NONE

PRELIMINARY
NOT FOR CONSTRUCTION

30% REVIEW SUBMITTAL

Approved By

UTILITIES PROJECT MANAGEMENT SECTION MANAGER DATE

PROJECT MANAGER DATE

C:\pwworking\pcabs_b&t\jeg_aloliq\d04141681\740-BSSR-C-COVER.dwg 2/22/2022 6:11 AM

SANITARY SEWER GENERAL NOTES

(* AT THE END OF NOTE INDICATES THAT IT HAS BEEN MODIFIED FROM THE CITY OF BELLEVUE STANDARD NOTE)

1. ALL WORK SHALL CONFORM TO THE 2021 CITY OF BELLEVUE UTILITY ENGINEERING STANDARDS, UNLESS OTHERWISE SHOWN.*
2. ALL NEW MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48"AND SHALL CONFORM TO THE STANDARD DETAILS.
3. SANITARY SEWER PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35 (4"-15") OR ASTM F-679 (18"-27"). BEDDING AND BACKFILL SHALL BE AS SHOWN IN THE STANDARD DETAILS.
4. WHERE SHOWN AS C900 PVC, THE SEWER PIPE SHALL HAVE A MAXIMUM DIMENSION RATIO (DR) OF 18 AND CONFORM TO AWWA C900 OR AWWA C905.
5. WHERE SHOWN AS DUCTILE IRON, THE PIPE SHALL BE CLASS 52 DUCTILE IRON WITH PROTECTO 401 LINING AND COATED WITH 8 MIL POLYETHENE ENCASEMENT IN ACCORDANCE WITH AWWA C105.
6. ALL SIDE SEWERS SHALL BE 6" DIAMETER PIPE AT A MINIMUM 2% SLOPE, UNLESS OTHERWISE NOTED ON THE STANDARD DETAILS.
7. SIDE SEWER STATIONS ARE REFERENCED FROM NEAREST DOWNSTREAM MANHOLE.
8. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IMMEDIATELY NOTIFY THE ENGINEER IF ANY CONFLICTS ARE DISCOVERED.*
9. ALL TESTING AND CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE OF A REPRESENTATIVE OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT.
10. ALL TRENCHES SHALL BE COMPACTED, AND HMA IN PLACE IN PAVED AREAS, PRIOR TO TESTING SEWER LINES FOR ACCEPTANCE.
11. SIDE SEWER STUBS SHALL BE TESTED FOR ACCEPTANCE AT THE SAME TIME THE MAIN SEWER IS TESTED..
12. TOPS OF MANHOLES WITHIN PUBLIC RIGHTS-OF-WAY SHALL NOT BE ADJUSTED TO FINAL GRADE UNTIL JUST PRIOR TO PAVING.
13. ALL MANHOLES IN UNPAVED AREAS SHALL INCLUDE A CONCRETE SEAL AROUND ADJUSTING RINGS PER STANDARD DETAIL.
14. CONTRACTOR SHALL ADJUST ALL MANHOLE RIMS TO FLUSH WITH FINAL FINISHED GRADES, UNLESS OTHERWISE SHOWN.
15. ALL SEWER MAIN CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE "STAKED"BY A SURVEYOR LICENSED IN WASHINGTON STATE FOR "LINE AND GRADE"AND CUT SHEETS PROVIDED TO THE ENGINEER, PRIOR TO STARTING CONSTRUCTION.*
16. CONTRACTOR SHALL INSTALL, AT ALL CONNECTIONS TO EXISTING DOWNSTREAM MANHOLES, SCREENS OR PLUGS TO PREVENT FOREIGN MATERIALS FROM ENTERING EXISTING SANITARY SEWER SYSTEM. SCREENS OR PLUGS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION AND SHALL BE REMOVED ALONG WITH COLLECTED DEBRIS AT THE TIME OF FINAL INSPECTION AND IN THE PRESENCE OF A REPRESENTATIVE OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT.
17. SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.
18. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF TEN FEET (10') HORIZONTAL SEPARATION BETWEEN ALL WATER AND SEWER LINES. ANY CONFLICTS SHALL BE REPORTED TO THE UTILITY AND THE ENGINEER PRIOR TO CONSTRUCTION.
19. THE CONTRACTOR SHALL ENSURE AND VERIFY THAT NO CONFLICTS EXIST BETWEEN SANITARY SEWER LINES AND PROPOSED OR EXISTING UTILITIES PRIOR TO CONSTRUCTION.
20. MINIMUM COVER OVER SEWER PIPE SHALL BE 5 FEET, UNLESS OTHERWISE SHOWN.
21. THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS AS DIRECTED BY THE ENGINEER.
22. AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ALLOWABLE ANGLE BETWEEN UTILITIES IS 45 DEGREES, UNLESS OTHERWISE APPROVED BY ENGINEER.*
23. AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN THE CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.
24. WHERE NEW UTILITY LINE CROSSES BELOW AN EXISTING AC MAIN, THE AC PIPE SHALL BE REPLACED WITH DI PIPE TO 3 FEET PAST EACH SIDE OF THE TRENCH AS SHOWN ON STANDARD DETAIL W-8. ALTERNATIVELY, WHERE DIRECTED BY THE ENGINEER, THE TRENCH MAY BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF, AKA FLOWABLE FILL) FROM BOTTOM OF TRENCH TO BOTTOM OF THE AC MAIN.
25. CALL 1-800-424-5555, OR 811, 72 HOURS BEFORE CONSTRUCTION FOR UTILITY LOCATES.
26. MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809 WAC.
27. THE CONTRACTOR SHALL PROVIDE COLOR CCTV EQUIPMENT, SHALL INCLUDE TELEVISION CAMERAS, A TELEVISION MONITOR, CABLES, POWER SOURCES, SIDE-LAUNCH CAPABLE IF NECESSARY, AND OTHER EQUIPMENT. FOCAL DISTANCE SHALL BE ADJUSTABLE THROUGH A RANGE FROM 6 INCHES TO INFINITY. THE CCTV EQUIPMENT SHALL INCLUDE A DISTANCE MEASURING INSTRUMENT (DMI) TO MEASURE THE HORIZONTAL DISTANCE TRAVELED BY THE CAMERA. THE DMI READOUT SHALL APPEAR CONTINUOUSLY ON THE VIDEO PRODUCED BY THE INSPECTION AND SHALL BE ACCURATE TO LESS THAN 1 PERCENT ERROR OVER THE LENGTH OF THE SECTION OF PIPELINE BEING INSPECTED. FOR STORM OR SANITARY SEWERS, THE LENGTH SHALL BE MEASURED FROM THE CENTERLINE OF THE MANHOLE OR CATCH BASIN TO THE CENTERLINE OF THE NEXT MANHOLE OR CATCH BASIN. *

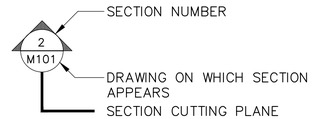
    SEE SECTION S5-13 CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION FOR VIDEO FORMATTING, NAMING, AND DELIVERY REQUIREMENTS.

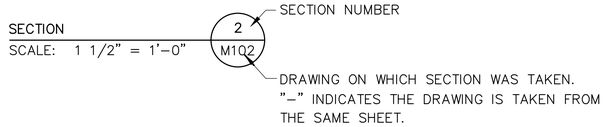
    THE CCTV INSPECTION SYSTEM SHALL BE PERFORMED UTILIZING ONE OF THE FOLLOWING VIDEO CAMERA SYSTEMS:

    REMOTE-FOCUS STATIONARY LENS CAMERAS;
    ROTATING LENS CAMERAS; OR PAN-AND-TILT CAMERAS.

    THE CCTV CAMERA SHALL BE MOUNTED ON A SKID, FLOATABLE RAFT SYSTEM, OR TRANSPORTER BASED ON THE CONDITIONS OF THE PIPELINE TO BE TELEVISED. TELEPHONES, RADIOS, OR OTHER SUITABLE MEANS OF COMMUNICATION SHALL BE UTILIZED TO ENSURE COMMUNICATION EXISTS BETWEEN MEMBERS OF THE CREW. THE CONTRACTOR SHALL INSPECT THE PIPELINE DURING OPTIMUM LOW-FLOW LEVEL CONDITIONS, AS PRE-APPROVED BY THE UTILITY INSPECTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY INSPECTOR PRIOR TO VIDEO INSPECTION. THE TELEVISION CAMERA UTILIZED SHALL BE SPECIFICALLY DESIGNED AND CONSTRUCTED FOR SEWER INSPECTION. THE CAMERA SHALL BE OPERATIVE IN 100 PERCENT HUMIDITY CONDITIONS. LIGHTING FOR THE CAMERA SHALL MINIMIZE REFLECTIVE GLARE. LIGHTING AND PICTURE QUALITY SHALL BE SUITABLE TO PROVIDE A CLEAR, IN-FOCUS PICTURE OF THE ENTIRE PERIPHERY OF THE PIPELINE FOR ALL CONDITIONS ENCOUNTERED DURING THE WORK. IF THE QUALITY OF THE VIDEO IS DEEMED TO BE UNACCEPTABLE BY THE UTILITY INSPECTOR, THE PIPELINE SHALL BE RE-TELEVISED AT NO COST TO THE CITY. THE CAMERA SHALL BE MOVED THROUGH THE PIPELINE AT A UNIFORM RATE, STOPPING WHEN NECESSARY TO ENSURE PROPER DOCUMENTATION OF THE PIPELINE CONDITION, BUT IN NO CASE SHALL THE TELEVISION CAMERA BE PULLED AT A SPEED GREATER THAN 30 FEET PER MINUTE, STOPPING WHEN NECESSARY TO ENSURE PROPER DOCUMENTATION OF THE PIPE CONDITION. THE VIDEO SHALL BE TAKEN AFTER INSTALLATION, CLEANING, AND PRESSURE TEST TO INSURE THAT NO DEFECTS EXIST. THE PROJECT WILL NOT BE ACCEPTED UNTIL ALL DEFECTS HAVE BEEN REPAIRED.*
28. WHEN WORK IS TO OCCUR IN EASEMENTS, THE CONTRACTOR SHALL NOTIFY THE EASEMENT GRANTOR AND BELLEVUE UTILITIES IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK (NOT INCLUDING WEEKENDS OR HOLIDAYS). FAILURE TO NOTIFY GRANTOR AND BELLEVUE UTILITIES WILL RESULT IN A STOP WORK ORDER BEING POSTED UNTIL THE MATTER IS RESOLVED TO THE SATISFACTION OF BELLEVUE UTILITIES. A WRITTEN RELEASE FROM THE EASEMENT GRANTOR SHALL BE FURNISHED TO THE UTILITY INSPECTOR PRIOR TO PERMIT SIGN-OFF.
29. THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY AND EXISTING PUBLIC SEWER EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN THE CONDITION PRIOR TO ENTRY. THE CONTRACTOR SHALL FURNISH A SIGNED RELEASE FROM ALL AFFECTED PROPERTY OWNERS AFTER RESTORATION HAS BEEN COMPLETED.*

SECTION AND DETAIL NUMBERING SYSTEM





DETAILS ARE CROSS-REFERENCED IN A SIMILAR MANNER.

UTILITY GRID # X-XX, X-XX,

SEC 2 TWP 24N RGE 5E

ONE INCH
AT HALF SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

NO	DATE	BY	APPR	REVISIONS

Jacobs

NOT FOR CONSTRUCTION
PRELIMINARY
30% REVIEW
FEBRUARY 2022

Approved By

XXXXX XXXXX
UTILITIES PROJECT MANAGEMENT SECTION MANAGER DATE

XXXXX XXXXX
PROJECT MANAGER DATE

XXX XX/XXXX
DESIGNED BY DATE
XXX XX/XXXX
DRAWN BY DATE
XXX XX/XXXX
CHECKED BY DATE

City of Bellevue
UTILITIES

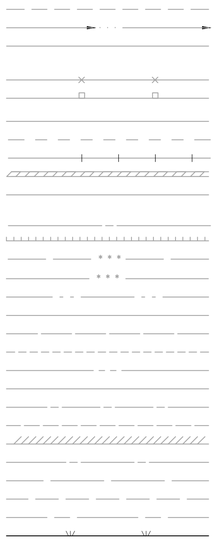
BOGLINE SANITARY SEWER REHABILITATION
SANITARY SEWER LINE
LEGEND AND ABBREVIATIONS 1 OF 2

DRAWING G-101 SHT – OF 00

Location: C:\pwworking\jacobs_b&i\coanwa\d0414168
Dwg.File: 740-BSSR-C-GENERAL.dwg
Layout: G-102
Plot Date: 2/22/2022 2:11 PM
Plot By: Coan, Wesley

STANDARD LINETYPES

EXISTING



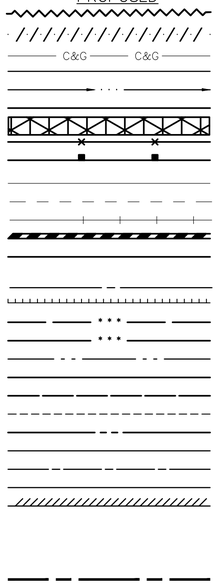
SURFACE FEATURES

ABANDON
REMOVE
CLEARING AND GRUBBING LIMITS
BUILDING LINE
CREEK/DITCH CENTERLINE
CURB/PAVEMENT/SIDEWALK
PROPOSED ECOLOGY BLOCK FENCE
GUARDRAIL
LAKE/POND
MARSH/SWAMP PERIMETER
RAILROAD
RETAINING WALL
RIVERBANK/SHORELINE

SURVEY

CENTERLINE
CONTOUR (DEPRESSION)
CONTOUR
CONTOUR (INDEX)
DONATION LAND CLAIM
EASEMENT (PERMANENT)
EASEMENT (TEMPORARY)
MEANDER LINE
PROPERTY LINE
RANGE/TOWNSHIP LINE
RESERVATION/PARK/FOREST
RIGHT-OF-WAY (EXISTING)
RIGHT-OF-WAY (LIMITED ACCESS)
SECTION LINE
QUARTER SECTION LINE
SIXTEENTH SECTION LINE
STATE/COUNTY/CORPORATE LIMIT
WETLAND LINE

PROPOSED



UTILITIES (EXISTING)

CABLE TELEVISION (AERIAL)
CABLE TELEVISION (BURIED)
FORCE MAIN
GAS
OIL
POWER (AERIAL)
POWER (BURIED)
SANITARY SEWER
STEAM
STORM DRAINAGE
TELEPHONE (AERIAL)
TELEPHONE (BURIED)
UTILITY SERVICE LINE (GENERAL)
WATER

UTILITIES (PROPOSED)

MAIN LINE (LIST TYPE, SIZE, ETC.)

SERVICE (LIST TYPE, SIZE, ETC.)

ABBREVIATIONS

AC	ASBESTOS CEMENT
ACP	ASPHALT CONCRETE PAVEMENT
ADA	AMERICANS WITH DISABILITIES ACT
AP	ANGLE POINT
ATB	ASPHALT TREATED BASE
AVE	AVENUE
AWG	AMERICAN WIRE GAGE
BEG	BEGIN
BERG	BEARING
BNSF	BURLINGTON NORTHERN SANTA FE
CB	CATCH BASIN
CCP	CYLINDER CONCRETE PIPE
CDF	CONTROLLED DENSITY FILL
C&G	CLEARING AND GRUBBING
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
COB	CITY OF BELLEVUE
COMM	COMMUNICATION(S)
CONC	CONCRETE
CONT	CONTINUOUS
CP	CONTROL POINT
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
CY	CUBIC YARDS
DET	DETAIL
DEMO	DEMOLISH
DIP	DUCTILE IRON PIPE
DIA	DIAMETER
DIFF	DIFFERENTIAL
DIPS	DUCTILE IRON PIPE SIZE
DIV	DIVISION
DR	DIMENSION RATIO
DWG	DRAWING
E	EAST
EB	EAST BOUND
EG	EXISTING GROUND
EL	ELEVATION
ELEC	ELECTRICAL
EOP	EDGE OF PAVEMENT
EXIST	EXISTING
FE	FLANGE END
FL	FLANGE
FM	FORCE MAIN
FOC	FACE OF CURB
GALV	GALVANIZED
GDR	GEOTECHNICAL DATA REPORT
GRAV	GRAVEL
HDPE	HIGH DENSITY POLYETHYLENE
HDD	HORIZONTAL DIRECTIONAL DRILL
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
HR	HANDRAIL
HSS	HALO STEEL SECTION
I	INTERSTATE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT ELEVATION
IN	INCH
IPS	IRON PIPE SIZE
KC	KING COUNTY
KWH	KILOWATT HOUR
L	LENGTH
LF	LINEAL FEET
MAX	MAXIMUM
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
NO	NUMBER
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHW	ORDINARY HIGH WATER
OT	OPEN TRENCH
P&R	PARK AND RIDE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	PLAIN END
PERM	PERMANENT
PIV	POST INDICATOR VALVE
PL	PLATE
PLCS	PLACES
PSE	PUGET SOUND ENERGY
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
REQD	REQUIRED
RJ	RESTRAINED JOINT
R/W	RIGHT OF WAY
S	SOUTH
SD	STORM DRAIN
SE	SOUTHEAST
SHT	SHEET
SIM	SIMILAR
SS	SANITARY SEWER, STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
S/W	SIDEWALK
TEMP	TEMPORARY
THD	THREADED
TMA	TRUCK MOUNTED ATTENUATOR
TOC	TOP OF CONCRETE
TRANS	TRANSITION
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WEST, WATER
W/	WITH
WB	WEST BOUND
W/O	WITHOUT

SYMBOLS LEGEND

- FOUND MONUMENT IN CASE
- UTILITY POTHOLE LOCATION
- CATCH BASIN/CURB INLET
- CLEAN OUT
- SIGN POST
- STORM DRAIN MANHOLE
- ELECTRICAL MANHOLE
- COMMUNICATIONS MANHOLE
- STANDARD SEWER MANHOLE (COB DET S-1)
- TYPE 2 SEWER MANHOLE (COB DET S-2)
- OTHER MANHOLE
- WATER MANHOLE
- WATER METER
- COUPLING
- WATER VALVE
- FIRE HYDRANT ASSEMBLY
- GAS METER
- GAS VALVE
- INVERT/CULVERT
- HAND HOLE (HH)
- IRRIGATION CONTROL VALVE
- POST INDICATOR VALVE
- TRAFFIC CONTROL CABINET
- POWER VAULT
- VAULT
- POWER POLE
- POLE ANCHOR
- STREET LAMP
- POLE WITH LUMINAIRE
- TREE, CONIFEROUS
- TREE, DECIDUOUS
- WATER SURFACE
- @ AT
- & AND
- Ø ROUND OR DIAMETER
- ℄ CENTER LINE
- ℙ PLATE
- WETLAND

UTILITY GRID # X-XX, X-XX,

SEC 2 TWP 24N RGE 5E

ONE INCH
AT HALF SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

NO	DATE	BY	APPR	REVISIONS

Jacobs

NOT FOR CONSTRUCTION
PRELIMINARY
30% REVIEW
FEBRUARY 2022

Approved By

XXXXX XXXXX
UTILITIES PROJECT MANAGEMENT SECTION MANAGER DATE

XXXXX XXXXX
PROJECT MANAGER DATE

XXX	XX/XXXX
DESIGNED BY	DATE
XXX	XX/XXXX
DRAWN BY	DATE
XXX	XX/XXXX
CHECKED BY	DATE

City of Bellevue
UTILITIES

BOGLINE SANITARY SEWER REHABILITATION
SANITARY SEWER LINE
LEGEND AND ABBREVIATIONS 2 OF 2

DRAWING G-102 | SHT — OF 00

Plot By: Coan, Wesley
Plot Date: 2/22/2022 2:14 PM
Layout: G-101
Location: C:\pwworking\jacobs_b&i\coanwa\d0414168
Dwg.File: 740-BSSR-C-GENERAL.dwg

A PORTION OF NE 1/4 SECTION 2, TOWNSHIP 24 N, RANGE 5 E, W.M. KING COUNTY, WA

60 0 30 60 120
SCALE IN FEET

ONE INCH
AT HALF SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

SEC 2 TWP 24N RGE 5E

UTILITY GRID # X-XX, X-XX,

NO	DATE	BY	APPR	REVISIONS

Jacobs

NOT FOR CONSTRUCTION
PRELIMINARY
30% REVIEW
FEBRUARY 2022

Approved By

XXXXX XXXXX
UTILITIES PROJECT MANAGEMENT SECTION MANAGER DATE

XXXXX XXXXX
PROJECT MANAGER DATE

XXX	XX/XXXX
DESIGNED BY	DATE
XXX	XX/XXXX
DRAWN BY	DATE
XXX	XX/XXXX
CHECKED BY	DATE

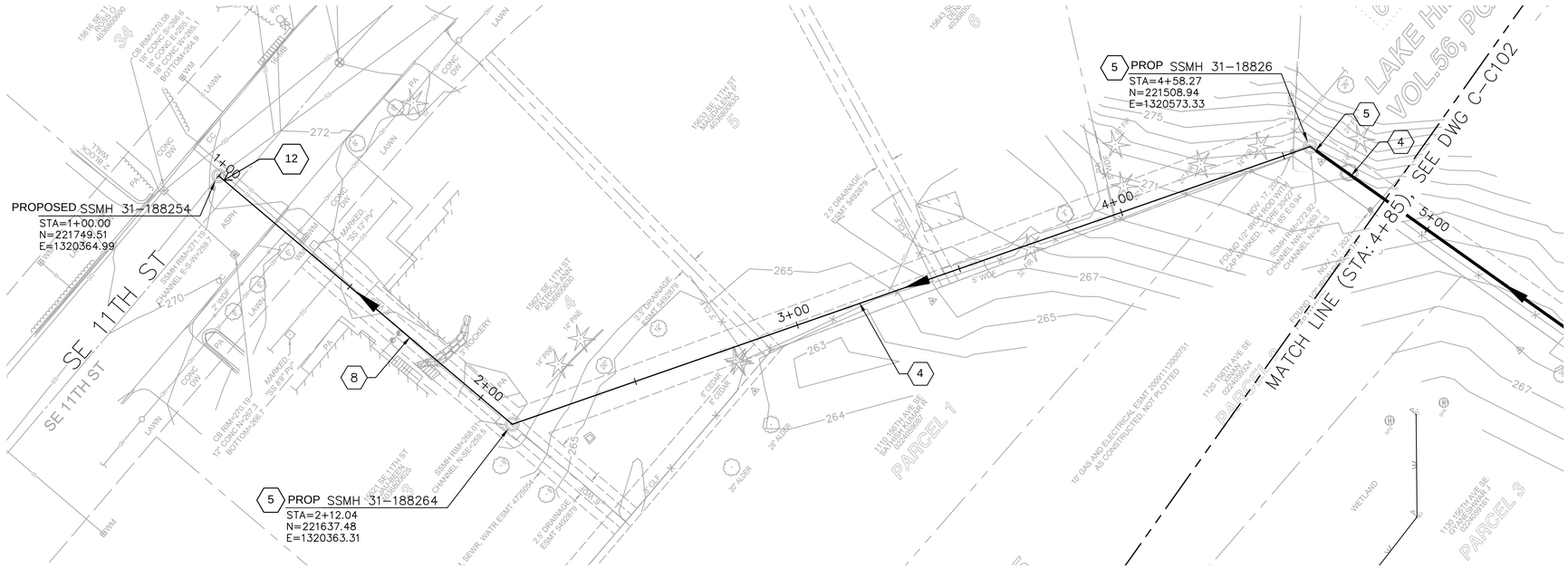
City of Bellevue
UTILITIES

BOGLINE SANITARY SEWER REHABILITATION
SANITARY SEWER LINE
OVERALL KEY MAP

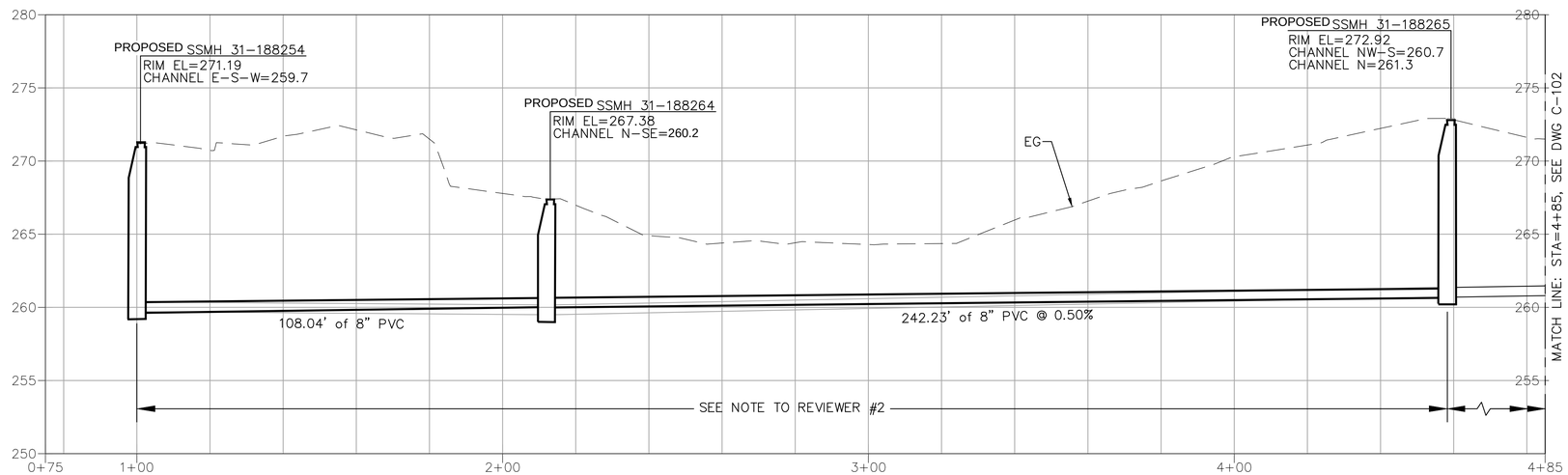
DRAWING C-001 | SHT VALUE OF 00

Location: C:\pwworking\jacobs_b&i\coanwa\d0414168
Dwg.File: 740-BSSR-C-SITE.dwg
Layout: C-001
Plot Date: 2/22/2022 2:27 PM
Plot By: Coon, Wesley

A PORTION OF NE 1/4 SECTION 2, TOWNSHIP 24 N, RANGE 5 E, W.M. KING COUNTY, WA



PLAN
SCALE: 1"=20'



PROFILE
SCALE: H: 1"=20' V: 1"=5'

NOTES:

1. SEWER MAIN LINE TO HAVE APPROXIMATELY 3' COVER EXCEPT WHERE NOTED OTHERWISE.
2. LISTED PIPE LENGTHS ARE ALL HORIZONTAL FROM CENTERLINE TO CENTERLINE OF FITTINGS, STRUCTURES, AND CHANGE IN SLOPE.
3. ALL SEWER TRENCH SECTIONS PER STD DETAIL S-14.

KEY NOTES:

1. REMOVE EXISTING SANITARY SEWER
2. REMOVE EXISTING SANITARY SEWER MANHOLE
3. REMOVE EXISTING SANITARY SEWER CLEANOUT
4. REPLACE EXISTING 8" SANITARY SEWER
5. REPLACE EXISTING 48" SANITARY SEWER MANHOLE
6. CONSTRUCT NEW 8" SANITARY SEWER
7. CONSTRUCT NEW 48" SANITARY SEWER MANHOLE
8. SEE NOTE TO REVIEWER #2
9. REHABILITATE EXISTING 48" SANITARY SEWER MANHOLE
10. RECONNECT EXISTING SERVICE
11. REPLACE EXISTING HOUSE SERVICE AS NECESSARY TO MEET PROPOSED SANITARY SEWER GRADE
12. CONNECT TO EXISTING SEWER MANHOLE
13. CONNECT TO EXISTING SANITARY SEWER PIPE
14. SIDE SEWER CONNECTION, SEE DETAIL/XXX. RELAY EXISTING SIDE SEWER AS NECESSARY TO MEET NEW SEWER PROFILE ELEVATION
15. ABANDON SEWER PER CITY OF BELLEVUE
16. BUILDING OUTLINE INFORMATION SHOWN BASED ON CITY OF BELLEVUE GIS DATA.

UTILITY GRID # X-XX, X-XX

SEC 2 TWP 24N RGE 5E

AT HALF SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

ONE INCH

20 0 10 20 40
SCALE IN FEET

NO	DATE	BY	APPR	REVISIONS

Jacobs

NOT FOR CONSTRUCTION
PRELIMINARY
30% REVIEW
FEBRUARY 2022

Approved By

XXXXX XXXXX
UTILITIES PROJECT MANAGEMENT SECTION MANAGER DATE

XXXXX XXXXX
PROJECT MANAGER DATE

XXX	XX/XXXX
DESIGNED BY	DATE
XXX	XX/XXXX
DRAWN BY	DATE
XXX	XX/XXXX
CHECKED BY	DATE

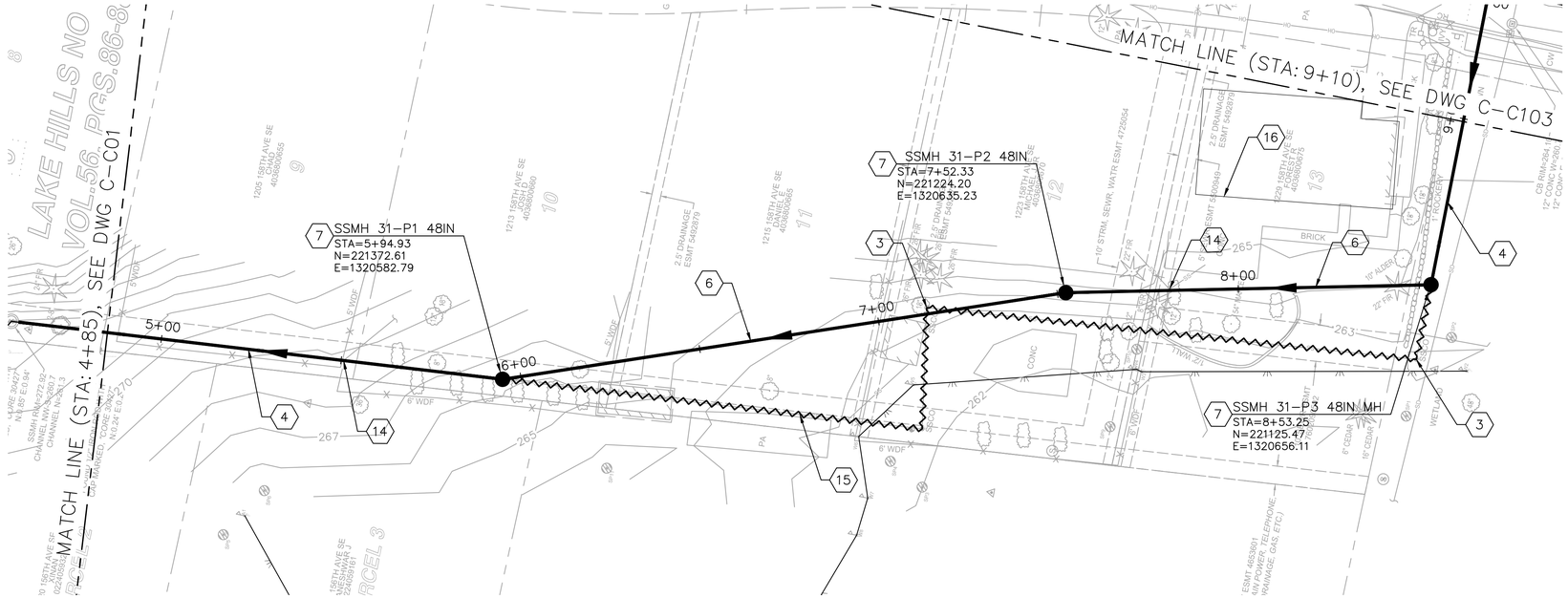
City of Bellevue
UTILITIES

BOGLINE SANITARY SEWER REHABILITATION
SANITARY SEWER LINE
SANITARY SEWER PLAN AND PROFILE

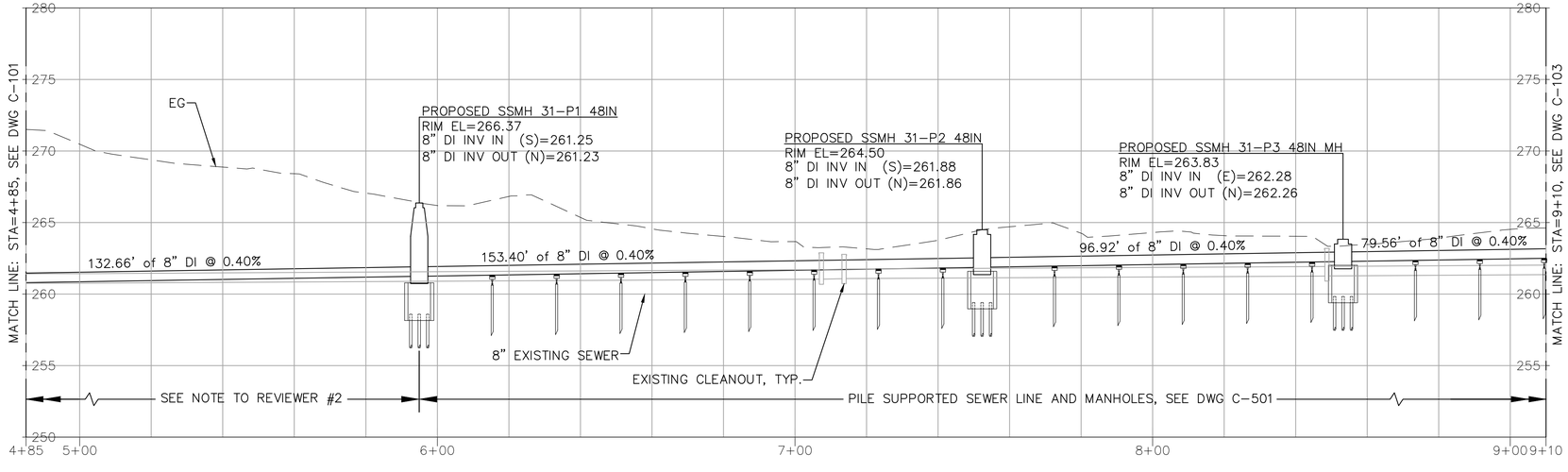
DRAWING C-101 SHT — OF 00

Location: C:\pwworking\jacobs_b&i\coanwa\d0414168
Dwg.File: 740-BSSR-C-SITE.dwg
Layout: C-101
Plot Date: 2/22/2022 2:27 PM
Plot By: Coon, Wesley

A PORTION OF NE 1/4 SECTION 2, TOWNSHIP 24 N, RANGE 5 E, W.M. KING COUNTY, WASHINGTON



PLAN
SCALE: 1"=20'



PROFILE
SCALE: H: 1"=20' V: 1"=5'

NOTES:

1. SEWER MAIN LINE TO HAVE APPROXIMATELY 3' COVER EXCEPT WHERE NOTED OTHERWISE.
2. LISTED PIPE LENGTHS ARE ALL HORIZONTAL FROM CENTERLINE TO CENTERLINE OF FITTINGS, STRUCTURES, AND CHANGE IN SLOPE.
3. ALL SEWER TRENCH SECTIONS PER STD DETAIL S-14.

KEY NOTES:

1. REMOVE EXISTING SANITARY SEWER
2. REMOVE EXISTING SANITARY SEWER MANHOLE
3. REMOVE EXISTING SANITARY SEWER CLEANOUT
4. REPLACE EXISTING 8" SANITARY SEWER
5. REPLACE EXISTING 48" SANITARY SEWER MANHOLE
6. CONSTRUCT NEW 8" SANITARY SEWER
7. CONSTRUCT NEW 48" SANITARY SEWER MANHOLE
8. SEE NOTE TO REVIEWER #2
9. REHABILITATE EXISTING 48" SANITARY SEWER MANHOLE
10. RECONNECT EXISTING SERVICE
11. REPLACE EXISTING HOUSE SERVICE AS NECESSARY TO MEET PROPOSED SANITARY SEWER GRADE
12. CONNECT TO EXISTING SEWER MANHOLE
13. CONNECT TO EXISTING SANITARY SEWER PIPE
14. SIDE SEWER CONNECTION, SEE DETAIL/XXX. RELAY EXISTING SIDE SEWER AS NECESSARY TO MEET NEW SEWER PROFILE ELEVATION
15. ABANDON SEWER PER CITY OF BELLEVUE
16. BUILDING OUTLINE INFORMATION SHOWN BASED ON CITY OF BELLEVUE GIS DATA.

20 0 10 20 40
SCALE IN FEET

ONE INCH
AT HALF SIZE IF NOT ONE INCH SCALE ACCORDINGLY

UTILITY GRID # X-XX, X-XX,

SEC 2 TWP 24N RGE 5E

NO	DATE	BY	APPR	REVISIONS

Jacobs

NOT FOR CONSTRUCTION
PRELIMINARY
30% REVIEW
FEBRUARY 2022

Approved By

XXXXX XXXXX
UTILITIES PROJECT MANAGEMENT SECTION MANAGER DATE

XXXXX XXXXX
PROJECT MANAGER DATE

XXX	XX/XXXX
DESIGNED BY	DATE
XXX	XX/XXXX
DRAWN BY	DATE
XXX	XX/XXXX
CHECKED BY	DATE

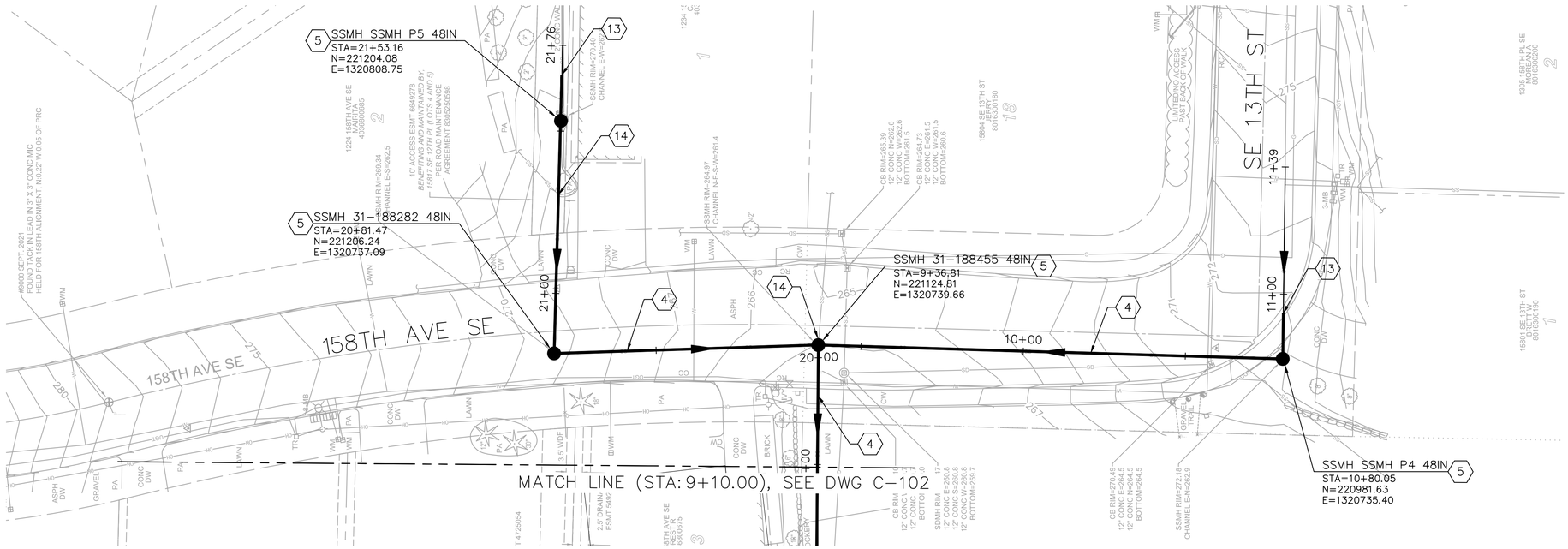
City of Bellevue
UTILITIES

BOGLINE SANITARY SEWER REHABILITATION
SANITARY SEWER LINE
SANITARY SEWER PLAN AND PROFILE

DRAWING C-102 | SHT — OF 00

Location: C:\pwworking\jacobs_b&i\coanwa\d0414168
Dwg.File: 740-BSSR-C-SITE.dwg
Layout: C-102
Plot Date: 2/22/2022 2:23 PM
Plot By: Coan, Wesley

A PORTION OF NE 1/4 SECTION 2, TOWNSHIP 24 N, RANGE 5 E, W.M. KING COUNTY, WASHINGTON



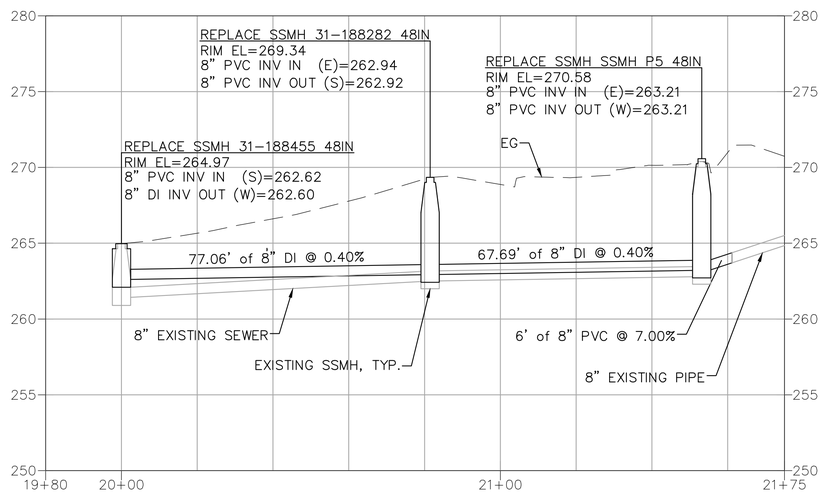
PLAN
SCALE: 1"=20'

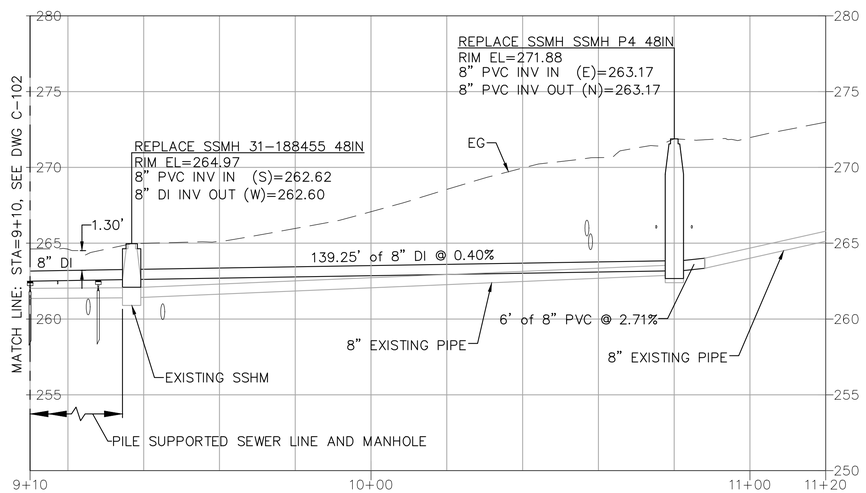
NOTES:

1. SEWER MAIN LINE TO HAVE APPROXIMATELY 3' COVER EXCEPT WHERE NOTED OTHERWISE.
2. LISTED PIPE LENGTHS ARE ALL HORIZONTAL FROM CENTERLINE TO CENTERLINE OF FITTINGS, STRUCTURES, AND CHANGE IN SLOPE.
3. ALL SEWER TRENCH SECTIONS PER STD DETAIL S-14.

KEY NOTES:

1. REMOVE EXISTING SANITARY SEWER
2. REMOVE EXISTING SANITARY SEWER MANHOLE
3. REMOVE EXISTING SANITARY SEWER CLEANOUT
4. REPLACE EXISTING 8" SANITARY SEWER
5. REPLACE EXISTING 48" SANITARY SEWER MANHOLE
6. CONSTRUCT NEW 8" SANITARY SEWER
7. CONSTRUCT NEW 48" SANITARY SEWER MANHOLE
8. SEE NOTE TO REVIEWER #2
9. REHABILITATE EXISTING 48" SANITARY SEWER MANHOLE
10. RECONNECT EXISTING SERVICE
11. REPLACE EXISTING HOUSE SERVICE AS NECESSARY TO MEET PROPOSED SANITARY SEWER GRADE
12. CONNECT TO EXISTING SEWER MANHOLE
13. CONNECT TO EXISTING SANITARY SEWER PIPE
14. SIDE SEWER CONNECTION, SEE DETAIL/XXX. RELAY EXISTING SID SEWER AS NECESSARY TO MEET NEW SEWER PROFILE ELEVATIOI
15. ABANDON SEWER PER CITY OF BELLEVUE
16. BUILDING OUTLINE INFORMATION SHOWN BASED ON CITY OF BELLEVUE GIS DATA.





PROFILE
SCALE: H: 1"=20' V: 1"=5'

20 0 10 20 40
SCALE IN FEET

ONE INCH
AT HALF SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

UTILITY GRID # X-XX, X-XX

SEC 2 TWP 24N RGE 5E

NO	DATE	BY	APPR	REVISIONS

Jacobs

NOT FOR CONSTRUCTION
PRELIMINARY
30% REVIEW
FEBRUARY 2022

Approved By

XXXXX XXXXX
UTILITIES PROJECT MANAGEMENT SECTION MANAGER DATE

XXXXX XXXXX
PROJECT MANAGER DATE

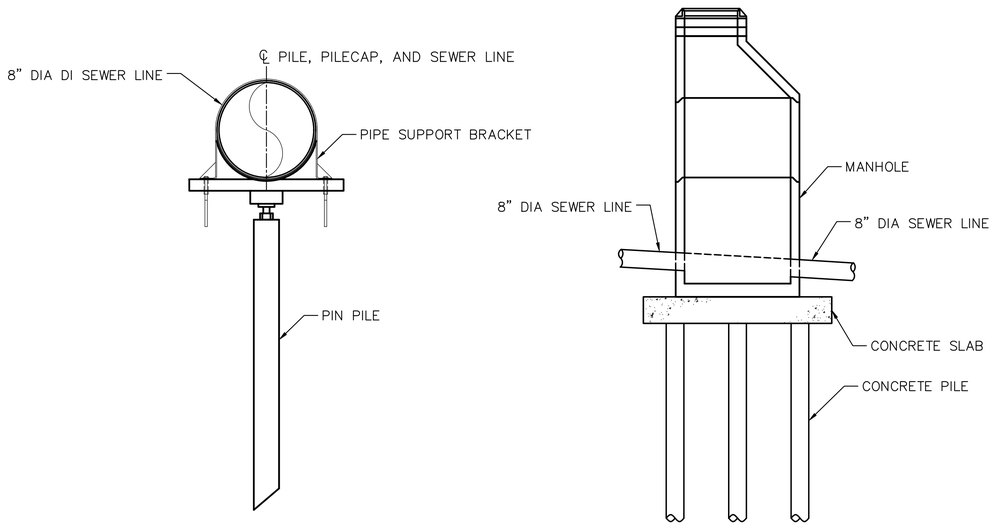
XXX	XX/XXXX
DESIGNED BY	DATE
XXX	XX/XXXX
DRAWN BY	DATE
XXX	XX/XXXX
CHECKED BY	DATE

City of Bellevue
UTILITIES

BOGLINE SANITARY SEWER REHABILITATION
SANITARY SEWER LINE
SANITARY SEWER PLAN AND PROFILE

DRAWING C-103 SHT — OF 00

Location: C:\pwworking\jacobs_b&i\coanwa\d0414168
Dwg.File: 740-BSSR-C-SITE.dwg
Layout: C-103
Plot Date: 2/22/2022 2:26 PM
Plot By: Coon, Wesley



PILE SUPPORTED PIPE SECTION

SCALE: 1/2"=1'-0"

UTILITY GRID # X-XX, X-XX,

SEC 2 TWP 24N RGE 5E

ONE INCH
AT HALF SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

NO	DATE	BY	APPR	REVISIONS

Jacobs

NOT FOR CONSTRUCTION
PRELIMINARY
30% REVIEW
FEBRUARY 2022

Approved By

XXXXX XXXXX
UTILITIES PROJECT MANAGEMENT SECTION MANAGER DATE

XXXXX XXXXX
PROJECT MANAGER DATE

XXX DESIGNED BY	XX/XXXX DATE
XXX DRAWN BY	XX/XXXX DATE
XXX CHECKED BY	XX/XXXX DATE

City of Bellevue
UTILITIES

BOGLINE SANITARY SEWER REHABILITATION
SANITARY SEWER LINE
PILE SUPPORTED DETAILS

DRAWING C-501 | SHT — OF 00

Location: C:\pwworking\jacobs_b&i\coanwo\d0414168
Dwg File: 740-BSSR-C-DETAILS.dwg
Layout: C-501
Plot Date: 2/22/2022 2:18 PM
Plot By: Coon, Wesley